

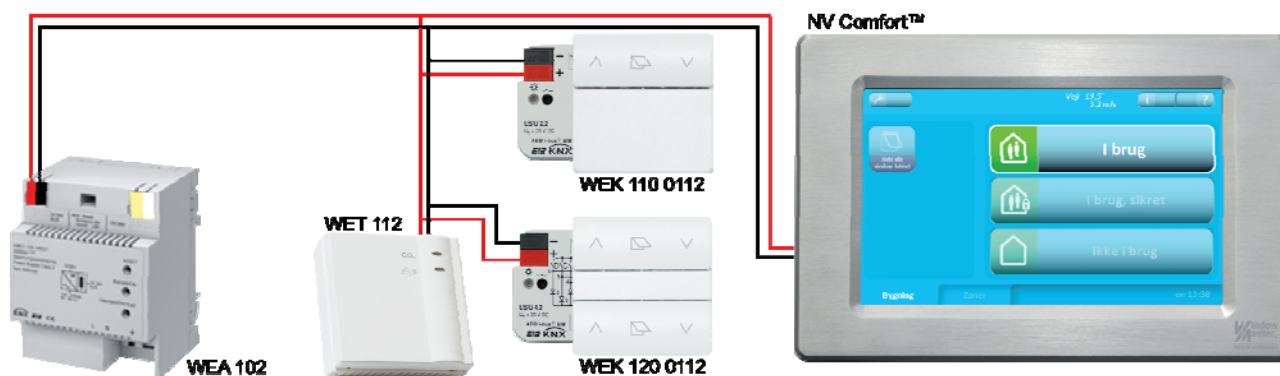
WEA 102

KNX - Power supply

Installation instruction: Please read the manual carefully before installment. The manual should be kept.

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1. Technical data

Size		4 DIN-rail modules of 18mm
Input voltage		120-230 VAC, 50 / 60Hz, allowed range 102-253 VAC
Power consumption		approx 24VA (nominal)
Output voltage		29 VDC (nominal value), allowed range 28-30 VDC, low current (SELV)
Output current		640 mA (nominal value), short circuit current limited to 1,5 A
Buffer time		by power failure of the engagement voltage approx 200ms by nominal load
Connection	Input (net)	plug-in terminals - 0,5...3,3mm ² (AWG 12) onewired, stripping length 9-10mm
	Output (bus)	spring contact on data rail bus terminal (black-red), plug-in terminals, 0,6...0,8mm ² onewired
	Output voltage (unthrottlet)	bus terminal (yellow-white), plug-in terminals, 0,6...0,8mm ² onewired
Protection type		IP 20
EMC-requirements		EN 50090-2-2
Surrounding conditions	Working	Working temperature -5 - +45°C Rel. humidity 5% - 93% (non condensation)
	Storage	Storage temperature -25 - +70°C rel. Humidity 5% - 93% (non condensation)

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2. Declaration of conformity

We hereby confirm that power supply WEA 102 complies with

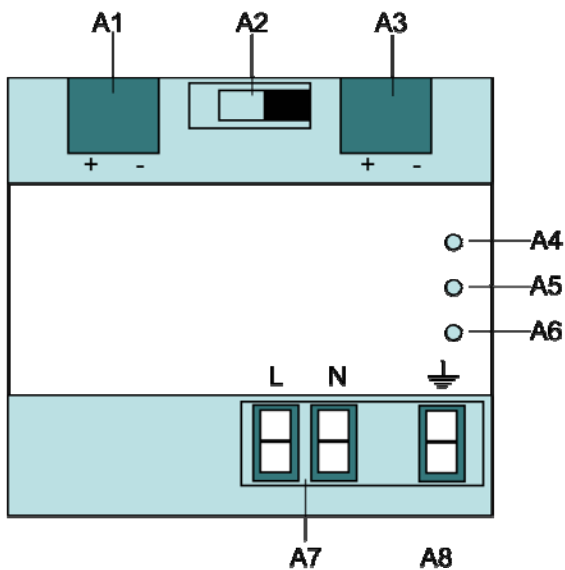
- EMC directive 89/336/EEC, as amended (91/263/EEC, 92/31/EEC, 93/68/EEC)
- Low Voltage Directive 73/23/EEC as amended (93/68/EEC) and
- EIB Handbook version 3 Volume 4 Part 2 (Electrical Safety, EMC, environmental conditions) and Volume 9 part 1/Part 2/del 3 (Electrical and mechanical features standardized EIB).

WindowMaster A/S:
(Jan Norup, Manager Product Solutions)

Skelstedet 13, DK-2950 Vedbæk, 25. May 2010

Declaration no. 029 0510 CE

3. Placement and functions of LEDs- and switches



Picture 2

- A1 Bus terminal red-black (low current terminal)
- A2 Reset-contact
- A3 Bus terminal yellow-white (low current terminal)
- A4 Red LED – indicates that the WEA 102 is positioned in reset mode
- A5 Green LED – indicates that the WEA 102 is working correct
- A6 Red LED – indicates that the bus line is overloaded or short circuited
- A7 Plug-in terminals for connection supply voltage (net terminal)
- A8 Earth terminal

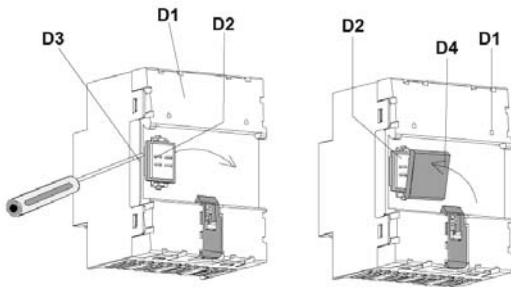
Installation conditions

The instrument can be used for permanent installations indoor in dry rooms for built-in distribution board or cabinets with DIN-rail.

Warning

- The product must be built-in to a powercurrent distribution board (230/400).
- The product must be installed and started by an authorized electrician.
- For safety reasons it must be possible to disconnect the WEA 102.
- The existing safety precautions must be kept.
- The product must not be opened.
- The planning and working on electric systems must respect all relevant national guidelines, directions and regulations.

4. Mounting and connecting



Picture 3

Connection to Bus without DIN-rail

If the connection to the Bus terminals is established without the use of a DIN-rail, the screening cap on the data rail connection must be removed and replaced with the enclosed isolation cap, to ensure sufficient isolation from the DIN-rail.

Removal of cap: (picture 3)

On the back side of the power supply (D1) a cap (D3) is covering the connection contact (D2). Insert a screwdriver between the power supply (D1) and the cap (D3) and remove the cap.

Mounting of isolation cap: (picture 3)

Place the isolation cap (D4) on top of the contact system and press it down until it clicks.

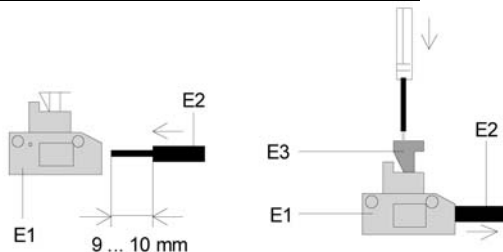
Connection to bus with DIN-rail

WEA 102 is clicked onto the DIN-rail.

Ensure that the type shields on all the products placed on the DIN-rail are turning in the same direction (reading direction), this will ensure that the polarization of the products are correct.

Free areas on the DIN-rail must be shielded / covered.

Connection of main voltage (picture 4)



Picture 4

Connection is carried out with the plug-in terminals (E1). The wire (E2) is stripped ca. 9-10mm.

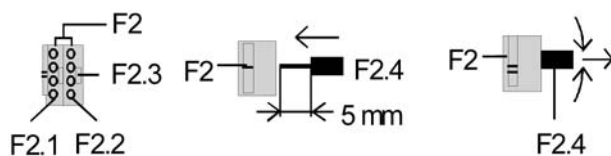
Disconnection of main voltage (picture 4)

With a screwdriver, press on the lock (E3) on the terminal and pull out the wire (E2) of the terminal (E1).

Installation of the bus terminal

Place the terminal in the guiding groove and press the terminal down to the stop.

Connection of bus terminals (picture 5)



Picture 5

- For terminal (F2) a 0,6...0,8mm² onewired conductor is used.
- Terminal F2 consists of a red (yellow) terminal (F2.1) and a black (white) terminal F2.2.
- Each terminal can be connected to up to 4 onewired of 0,6...0,8mm².
- Conductor F2.4 is stripped approx 5mm and inserted into terminal F2 (red/yellow = +, black/white = -).

Dismounting of the low current terminal (picture 5)

Pull the terminal F2 off and wriggle the BUS conductor F2.4 back and forth while pulling.